

L1               STRUCTURE UPLOADED  
                  E BENZODIAZEPINE/CN  
                  SET EXPAND CONTINUOUS  
L2               1 S E3

                  FILE 'CAPLUS' ENTERED AT 20:37:59 ON 01 DEC 2011  
                          E RESPIRATORY SYNCYTIAL VIRUS/CT  
                          E E15+ALL/CT  
L3               163493 S E26-E32,E35  
                          E COMMON COLD/CT  
                          E E38+ALL  
L4               33273 S E50-E52,E62-64,E66-E68  
                          E RHINOVIRUS/CT  
                          E E71+ALL/CT  
L5               2062 S E87,E93-E199

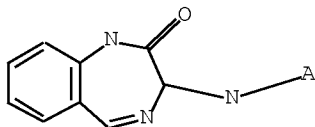
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L6               50 S L1 SSS SAM  
                          E BENZO(1,2) DIAZEPINE/CN  
                          E BENZO-1,2-DIAZEPINE/CN

                  FILE 'CAPLUS' ENTERED AT 20:42:49 ON 01 DEC 2011  
L7               29 S (L3 OR L4 OR L5) AND L2  
L8               13 S L7 AND (PY<=2004 OR PRY<=2004 OR AY<=2004)

                  FILE 'REGISTRY' ENTERED AT 21:03:37 ON 01 DEC 2011  
L9               STRUCTURE UPLOADED  
L10              STRUCTURE UPLOADED

L10              STRUCTURE UPLOADED

=> d l10  
L10 HAS NO ANSWERS  
L10              STR

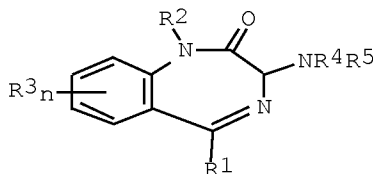


L11              50 S L10 SSS SAM  
L12              7855 S L10 SSS FULL

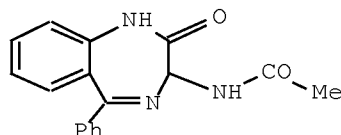
                  FILE 'CAPLUS' ENTERED AT 21:05:09 ON 01 DEC 2011  
                          E ANTIVIRAL AGENTS/CT  
                          E E226+ALL/CT  
L13              96501 S E241,E245,E247-E248,E251,E298,E300  
                          E VIRUS REPLICATION/CT  
                          E E317+ALL/CT

L14 11712 S E329  
 L15 261893 S (L3 OR L4 OR L5 OR L13 OR L14)  
 L16 26 S L12 AND L15  
 L17 12 S L16 AND (AY<=2004 OR PRY<=2004 OR PY<=2004)

L17 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2011 ACS on STN  
 GI



I



II

AB Benzodiazepines (shown as I; variables defined below; e.g. II) and pharmaceutically acceptable salts thereof, are active against respiratory syncytial virus (RSV). For I: R1 = C1-6 alkyl, aryl or heteroaryl; R2 = H or C1-6 alkyl; each R3 = halogen, hydroxy, C1-6 alkyl, C1-6 alkoxy, C1-6 alkylthio, C1-6 haloalkyl, C1-6 haloalkoxy, amino, mono(C1-6 alkyl)amino, di(C1-6 alkyl)amino, nitro, cyano, -CO2RI, -CONRIRII, -NH-CO-RI, -S(O)RI, -S(O)2RI, -NH-S(O)2RI, -S(O)NRIRII or -S(O)2NRIRII wherein each RI and RII = H or C1-6 alkyl; n = 0-3; R4 = H or C1-6 alkyl; R6 = C1-6 alkyl, aryl, heteroaryl, carbocyclyl, heterocyclyl, aryl-(C1-6 alkyl)-, heteroaryl-(C1-6 alkyl)-, carbocyclyl-(C1-6 alkyl)-, heterocyclyl-(C1-6 alkyl)-, aryl-C(O)-C(O)-, heteroaryl-C(O)-C(O)-, carbocyclyl-C(O)-C(O)-, heterocyclyl-C(O)-C(O)- or -XR6. X = -CO-, -S(O)- or -S(O)2-; and R6 = C1-6 alkyl, hydroxy, C1-6 alkoxy, C1-6 alkylthio, aryl, heteroaryl, carbocyclyl, heterocyclyl, aryl-(C1-6 alkyl)-, heteroaryl-(C1-6 alkyl)-, carbocyclyl-(C1-6 alkyl)-, heterocyclyl-(C1-6 alkyl)-, aryl-(C1-6hydroxyalkyl)-, heteroaryl-(C1-6 hydroxyalkyl)-, carbocyclyl-(C1-6 hydroxyalkyl)-, heterocyclyl-(C1-6 hydroxyalkyl)-, aryl-(C1-6alkyl)-O-, heteroaryl-(C1-6alkyl)-O-, carbocyclyl-(C1-6 alkyl)-O-, heterocyclyl-(C1-6 alkyl)-O- or -NRIRII wherein each RI and RII = H, C1-6 alkyl, carbocyclyl, heterocyclyl, aryl, heteroaryl, aryl-(C1-6 alkyl)-, heteroaryl-(C1-6 alkyl)-, carbocyclyl-(C1-6 alkyl)- or heterocyclyl-(C1-6 alkyl)-. Although the methods of preparation are not claimed, .apprx.80 example preps. are included. For example, II was prepared by N-acetylation of 3-amino-5-phenyl-1,3- dihydrobenzo[e][1,4]diazepin-2-one; the reactant was prepared by deprotection of (2-oxo-5-phenyl-2,3-dihydro-1H-benzo[e][1,4]diazepin-3- yl)carbamic acid benzyl ester, which was prepared by cyclization of (2-aminophenyl)phenylmethanone with (benzotriazol-1-yl)(benzyloxycarbonylamino)acetic acid, which was prepared from glyoxylic acid monohydrate, benzotriazole and benzyl carbamate in toluene. Values for inhibition of RSV and toxicity were determined for >100 examples of I.

ACCESSION NUMBER: 2004:267311 CAPLUS Full-text  
 DOCUMENT NUMBER: 140:287417  
 TITLE: Preparation of aminobenzodiazepinones and

pharmaceutical compositions containing them for use  
against respiratory syncytial virus

INVENTOR(S): Carter, Malcolm; Henderson, Elisa; Kelsey, Richard;  
Wilson, Lara; Chambers, Phil; Taylor, Debra; Tyms,  
Stan

PATENT ASSIGNEE(S): Arrow Therapeutics Limited, UK

SOURCE: PCT Int. Appl., 134 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004026843	A1	20040401	WO 2003-GB4050	20030922
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	PRIORITY APPLN. INFO.:			GB 2002-21923	A 20020920
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